

**A STUDY OF RICE BLAST DISEASE IN KAMPUNG SAWAH SEMPADAN,
SELANGOR.**

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TABLE OF CONTENTS

	PAGE
ACKNOWLEDGEMENTS	iii
TABLE OF CONTENTS	iv
LIST OF FIGURES	vi
LIST OF TABLES	vii
LIST OF ABBREVIATIONS	viii
ABSTRACT	ix
ABSTRAK	x

CHAPTER

1	INTRODUCTION	
	1.1 Background of study	1
	1.2 Objective of study	2
	1.3 Significant of research study	2
2	LITERATURE REVIEW	
	2.1 Blast disease	3
	2.2 Symptoms of blast disease	3
	2.3 Impact of blast disease	6
	2.4 Blast disease management	6
	2.4.1 Planting of resistant cultivars	6
	2.4.2 Cultural practices	7
	2.4.3 Chemical control	7
	2.4.4 Biological control	8
3	MATERIAL AND METHOD	
	3.1 Selection of location	9
	3.2 Data collection and disease survey	11

ABSTRACT

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Production of rice are facing another problem which are pest and disease. One of the disease problem that comes up from rice production is rice blast caused by *Pyricularia oryzae*. Rice blast could be the one of the major disease that have been found in Kampung Sawah Sempadan, Selangor, which tropics environment help of causing of varying degrees of damage. In this study, information regarding to the incidence, severity and occurrence factor of blast disease in Kampung Sawah Sempadan, Selangor during hot climate or drought season were recorded. Result show there are significant diferrent ($p - \text{value} < 0.05$) for both percentage incidence and severity between the selected field except for mean incidence in field 3 and mean of severity in field 1. There are several factor that contribute to the occurrence of the disease such as cultural practices by the farmers and environmental factor.

CHAPTER 1

INTRODUCTION

1.1 Background of study

Generally, rice relatively is a major food for human and consider important for food security especially Asian countries. As demand of rice, production of rice also need to be increase as the population growing up (J.Bigirimana, 2014). Moreover, beside of food scarcity, production of rice is facing another problem which are pest and disease. One of the disease problem that comes up from rice production is rice blast caused by *Pyricularia oryzae*.

Rice blast could be the one of the major disease that found in Kampung Sawah Sempadan in Kuala Selangor which have tropics environment and this environment help the disease cause of varying degrees of damage. The pathogen attack all plant part such as leaf, neck, panicle, node, and collar. This disease can spread in several ways through seeds, other alternatives plant host and air. It is also popular paddy disease in Malaysia and classify as one of most dangerous which attack the paddy as early as 15 days after planting which can affect the yield a 100% (Sofianita et al., 2015).